PRESERVED

App. F. IX-4

1928.9

File No. 306-28

Serial Nos. 1-6

Previous References

Later References

General and Revenue Secretariat.

Serial Nos. Six

Part B for January 30.

SUBJECT

Prospectus & syllabus of the Course of instruction in Government Industrial Schools

To

General and Revenue Secretariat | 2L File No. 306 of 1928.

Serial No.

1 From the Dir. of Ind.
D.-637/28-2L dated
Submits for approval a Revised Syllabus of the prospectus + Syllabus of the Course of instruction in Govt. Industrial Schools.

Hg 6.

1. Ref^ce is invited to the proceedings of the meeting of the Supts. of Industrial Schools, at which the whole question was fully discussed. The alterations proposed by the Dir. of Ind. seem to be in the right direction + may perhaps be approved. The Dir's proposal for the grant of Scholarships during all the three years of training has been already been sanctioned & the number of Scholarships in Industrial Schools has been revised, involving an annual expenditure of Rs 12128/- The Dir. has also been requested to obtain + submit the opinion of Sir. A. Chatterton on the Scheme of attaching Boarding Homes to Industrial Schools. It is stated that if the revised Syllabus is enforced, the grants to the Industrial Schools will have to be slightly increased. The Dir. has not stated the probable extra expenditure involved. The Finl. Secy. may however be consulted.

2. Sir Alfred Chatterton may perhaps be requested whether he has any suggestions to offer on the revised prospectus + Syllabus. Submitted by

three
first
" and

½ Collection put up with the Budget file

WD 021—GPB—30,000—21-8-28.

Subject: Instruction in Govt. Industrial Schools revised course.

Serial No.

The Dir. of Itc.

Subt. for orders with Refs.

22.3.29

3 Unless the addl. expenditure involved in the revision is known it is not possible to accept all the proposals of the Dir. Those which involve no extra expenditure may, perhaps, be sanctd. The Dir. requested to submit a probable estimate for the others. Meanwhile the views of Lt. A. C. may also be obtained.

Secy D

30.3.29

obtained for the meeting with the Dir. of Ind. on the 27th. May be sent back to Govt. Secy. take subject not discussed at the meeting with the Director 26/3.

1/4

4 Please ask Dir for details showing addl expdr. I doubt whether Lt A. C. will be here long enough for the Dir to consult him & get his opinion — but he might be asked to do so if possible.

10.4.29

11/4

5 Dft. Subt. for approval

13.4.29. 13/4

6 Issue

20.4.29

2 To the Dir Itc.

No. D. 10982 dt 24.4.29

Calls for details of expenditure in respect of the revision proposals in 3(1)

25 APR. 1929

DEVELOPMENT BRANCH.

NOTE—Contn., sheet

9728 (3

App. F. III—2]

General and Revenue Secretariat | Dc File No. 366 of 1928.

Serial No.

From the Dir. of Dc

3 D. -633/28-29 d/14.5.29

States that the only obligatory item of expenditure incidental to the revision of Syllabus is the charge on account of Scholarships, which has already been sanctioned in the GR d. 18.3.29 & that all other items of expenditure are not immediately obligatory & may be met as funds become available & requests that the extra allotment of Rs 4500 proposed him in the Departmental estimates may be provided

Subj. for perusal & orders with refce. to paras 3 and 4.

An addl. allotment of Rs 3000/- has been made in the next year's budget under "Materials" of District & Taluka Industrial Schools.

Thkr 29.5.29.

The dir proposals may, perhaps, be cancelled within the limits of the budget grant.

Keys Keyes 31.5.29

31/5

Ask Dir to frame proposals in view of the Budget grant 28 6 29

28/6/29

Cer 28/6

Thkr 3.7.29

Secy Cer 4.7.29

NOTE—Contn. sheet

WD 021—GPB—30,000—21-8-28

Serial No.

1 To The Dir. Dc
No D. 239 dt 8.7.29
Calls for revised proposal in conformity with the sanctioned budget grants for the Dept for the current year

Cn ft.

GEN. & REV. SECRETARIAT
10 JULY 1929
DEVELOPMENT BRANCH.

5 From
The Director of State in Mysore.
D1-633/28-29 dt 23-7-29
Forwards a revised Syllabus and requests Sanction for the same.
Submitted with a draft G.O. for approval or for other orders

CSR 21/8

The object of the revised Syllabus is to allow additional expenditure only in so far as Scholarships have to be paid to students during the third year also, and machine Hemmers have to be opened as an annexe to each School, and that the required amount has already been provided for in the Sanctioned budget for 1929-30.

Further it would be necessary if the proposed additional classes, namely a Leather workers class at Channapatna & a Motor Drivers' class at Shimoga have to be provided for. The Dir. proposes that the opening of these classes may be deferred.

This proposal may perhaps be accepted.

There is one change in the proposed

Note—Contn. Sheet

WD 01684—GPB—30,000—20-4-29

S. P. C.—2]

Q R S

~~Stores Purchase Committee~~ Indent No. 19 —19

757 (5)

Revised syllabus as compared with the existing one, which appears to require consideration. The DI proposes inter alia the number of working hours in a week be increased from 36 hours to 41½ hours. For this purpose, the hours of work in the afternoon are proposed to be from 2 to 5.30 P.m as against 2 to 5 P.m. in the existing syllabus. Considering that the course itself has been extended by 1 year. the hours of work proposed appear to be too many since the afternoon hours may perhaps remain the same as now i.e. 2 to 5 P.m. If this modification is made the total working hours in a week will be 39 hours instead of 41½ hours as proposed. If the above proposal is accepted, necessary changes may be made in the revised syllabus

Sd/ 29/8/29

Addl Dy Secy

26/8 The syllabus as revised by the DI might be accepted

1st Member

30 8 29

I agree

Sd/

31.8.29

2.9.29

Sd/

NOTE—Contn. sheet.

WD 862—GPB—1000—3-10-28

OFFICE OF THE FIRST [illegible] OF [illegible]
30 AUG. 1929
No. 1478

787

General and Revenue Secretariat | D&C File No. 306 | App. F. III—2] of 1928

Serial No.

Subd

May the draft in the file be issued ?

CBA 22/9

see desp ?

for perusal before issue -

Eag 10/9/29

W/9

Issue

16/9 29

(1)

TELEGRAPHIC ADDRESS :— "INDUSCOM."

In reply please refer to
No. D1-633/28-29

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

SECRETARIAT 25 FEB. 1929 DEVELOPMENT BRANCH.

OFFICE OF THE DIRECTOR, 7085

Dated,- Bangalore, 23rd February ~~1929~~.

Encl. 2
Extract will follow.
25/2/29 C.V.

FROM

C. RANGANATHA RAO SAHIB, ESQ., B.A., B.L.,
Director of Industries and Commerce in Mysore,
(Bangalore, India.)

To

9 YC 306-28-1

N. Rama Rao Esq., B.A., B.L.,
Secretary to the Government of Mysore,
Development Departments,
Bangalore.

SIR,

I have the honour to submit for the approval of Government a revised syllabus of the course of instruction in Government -- Industrial Schools. The syllabus in force at present was approved by Government in their order No. I.C.1609/I&C. 320-23-4 dated the 7th September 1926. It has not been practicable to adhere to the syllabus in view of the fact that although the course of study extends according to the prospectus of the Industrial Schools to a period of four years, the syllabus provides for the instruction being completed by the end of two years and the further period of two years is required to be spent in the Workshop Section where the pupils are required to work for wages. The boys who now apply for admission in our Industrial Schools are usually below 12 and the training sought to be imparted to them within the first two years after their joining the school is much beyond their capacity to acquire. After I took charge of the Department of Industries, I instructed the Superintendents of Indus-trial schools to work the syllabus as closely as possible in order that ~~in~~ all the defects brought to light by experience may be set right as far as possible. I held a meeting of the Superintendents of Indus-trial schools, Superintendents of Industries, and all the chief officers of the Department in July last year and all subjects connected with improvement in the working of Industrial Schools were fully discussed. A copy of the proceedings of the meeting has already been submitted for the information of Government in my letter No. D1-44 of 1928-29

The revised syllabus now submitted for the approval Government follows mainly the decisions arrived at the meeting. The chief modifications as compared with the existing syllabus are briefly as follows:-

(1). The course of instruction will last over a period of six terms or three years. There is no serious modification in the subjects taught or the course of training, but the period of training is extended from two to three years. This is absolutely necessary.

(2). The number of hours is increased to 41½ hours a week as against 36 hours in order to increase the number of hours allotted to general education to 9 instead of only 5 at present. It is absolutely necessary that our artisans should thoroughly acquire the elements of reading, writing and Arithmetic if they should become efficient workmen.

(3). Scholarships are given during the entire training period of three years. The scholarships given during the third year to all classes of students will be Rs.6/- for reasons explained in my letter No. D1-720/28-29 dated the 21st December 1928. The system of scholarship is unsatisfactory, but until Boarding Homes are constructed scholarships have to be continued.

Boarders treated separately — Data collection ✓ put up with the Budget bile.

(4). The period allowed for admission is extended up to the middle of August in the case of maidan schools and to the end of September in the case of the malnad schools. It was the practice to admit boys all round the year. This should be stopped and it is desirable that some latitude should be allowed by extending the period during which admission of new pupils is permitted.

(5). The distinction between Industrial Schools and Trade Schools is abolished. It is advisable to impart training in Carpentry & Smithy in all schools. This matter was fully considered at the meeting referred to above. An extract of the proceedings is enclosed.

will follow.

(6). An Advisory Committee is appointed for each school

each school for supervising the selection of students for admission, the grant of scholarships, and the general working of the school. This will help to keep alive the interest of the leading non-official public, who will be represented on the Committee, in the working of the school and ensure orders to the workshop section from time to time.

(7). A workshop section is proposed to be attached to all schools wherein training in machine shop practice, furniture and cabinet making on commercial lines will be given to the students.

(8). It is proposed to add a Motor Driver Class in the school at Shimoga and a leather worker's class at Channapatna.

If the revised prospectus and the Syllabus are approved, it will be necessary to increase slightly the grants allotted to Industrial schools. The inadequacy of the present grants for these schools has been repeatedly stressed in the interpellations of the members of the Legislative Council and the Representative Assembly. The equipment of the schools has to be largely replaced as the present equipment is worn out. I beg however to submit that the revised syllabus may be approved in order that work may be started on sound lines without delay. If the main principles of the revised syllabus are approved, I shall submit in due course, for the orders of Government, the additional non recurring and recurring grants that will be required to carry on work on the lines outlined.

I have the honour to be,

S i r,

Your most obedient servant,

C Rangaswamy Rao Sahib

DIRECTOR.

AKG).

I.C.1609-I&C.320-23-4, dated the 7th September 1926. (4

GOVERNMENT INDUSTRIAL SCHOOLS IN THE MYSORE STATE.

Rules.

Introduction: There are now seven Industrial Schools under the management of the Department of Industries and Commerce at the following centres:

1. Shimoga.
2. Chikmagalur.
3. Hassan.
4. Chitaldroog.
5. Channapatna.
6. Sagar.
7. Dodballapur.

In addition to these schools there is the Chamarajendra Technical Institute at Mysore, where advanced training is given in Arts and Crafts for students desirous of getting such training.

OBJECT. The object aimed at in opening of these schools is to train boys, in a methodical way, in any of the crafts noted below so as to enable them to earn an adequate living at the end of the course.

In order to make them skilled workmen provision has been made to train them in Drawing and General Education.

SUBJECTS TAUGHT.

1. Carpentry and Cabinet-making.
2. Smithy and Fitter's work.
3. Rattan and Bamboo Work.
4. Sheet Metal Work.
5. Lacquerware work, and Toy manufacture.
6. Sandalwood Carving.
7. Nature Imitation (allied subject to lacquer work).
8. Weaving.
9. Motor Mechanic - Driving.
10. Leather work.

ADMISSION: 1. Students seeking admission to the schools should be above 12 years of age.

2. Admission will generally be made only once a year from the 15th May to the middle of August, provided that in the case of the Industrial Schools of Shimoga, Chikmagalur and Sagar, students will be admitted up to the end of September.

3. The boys should be physically fit to undergo practical training.

4. Preference for admission will be given to the students whose parents are practising craftsmen.

5. The parent or the guardian of the student should enter into an agreement with the Director of Industries and Commerce binding himself to keep his boy in the school till the completion of the course selected.

6. Pupils will be entitled to 15 days' leave in a year but not more than four days in a particular month. They will also be entitled for not more than two months' sick leave without forfeiting their scholarship.

7. A fine of half anna calculated in every rupee of stipend for every day of absence, over and above the 15 days' leave, shall be deducted from the stipends. Late attendence on three days will be counted as one absence.

8. Admissions are made annually and limited in number to different sections as follows:-

1. Carpentry.	... 8.
2. Smithy.	... 6.
3. Rattan	... 6.
4. Lacquerware Work & Toy manufacture (Channapatna).	...20.
5. Weaving (Dodballapur)	...16.
6. Sandalwood carving. (Sagar). ...	...16.

9. Vacancies during the year will be filled up with the previous permission of the Superintendent of Industries.

10. A special prize will be awarded to the student who completes the full course with regular attendance.

Working hours:

In the morning ...	7.30 A.M. to 11-30 A.M.
In the evening ...	2 P.M. to 5-30 P.M.
Saturday or local Shandy	7-30 A.M. to 11-30 A.M.

Vacation and Holidays. The schools will be closed for Summer Vacation from the15th April to the 15th May.

All Gazetted Holidays as per Government Calendar will be observed.

Scholarships. Generally the course of study in each subject extends up to five years, and ~~that~~ during the first, second and third years, students will be paid scholarships at the rate of Rs.2, 4, and 6 respectively in the case of boys belonging to classes other than the depressed community, and Rs.3, 5 and 6 respectively in the case of Depressed Classes Students.

The shholarships will be tenable for three years.

No student will, under any circumstances, be allowed to draw scholarship for more than three years.

During the 4th and 5th years ~~they~~ students will be paid wages in lieu of scholarships, which will be regulated according to the skill of the students in the workshop section of the school wherein they will be asked to work.

In addition to the scholarships referred to above, eight scholarships, four on Rs.10 each per mensem for local students and four on Rs.15 to moffusil students will be granted for a period of one year to undergo training in the Departmental concern, viz., Central Industrial Workshop, Art Workshop, Government Weaving Factory and the Silk Filature at Mysore.

EXAMINATIONS AND CERTIFICATES. An examination will be held at the end of each year in the first two weeks of April. Promotion to the higher classes will be made with the approval of the Superintendent of Industries. Students failing to pass in the prescribed tests will not

will not be promoted to the higher classes. One more chance will be given to a student at the discretion of the Superintendent.

Certificates will be awarded by the Director of Industries and Commerce to students who will successfully complete the course and pass an examination held in the final year by a Board constituted for the purpose.

Preference will be given to such holders of certificates in employing hands in the several industrial concerns of the State.

GENERAL REMARKS.

1. Every school is managed by a qualified Superintendent assisted by an instructor for each section.

2. There will be a school Committee formed for each school. The main functions of the School Committees will be as follows:

(a) Consideration of the reports of the Superintendent of the School on its working.

(b) Consideration of the grant of Scholarships.

(c) Provision of work in the Workshop section of the School.

(d) They will have no control over the Superintendent or the staff of the school.

(e) Consideration of subjects for the general improvement of the School.

3. Every school is divided into two sections, (1) Training Section, (2) Workshop Section. Pupils in the first three years of their course are given practical training in the Training Section. After the third year they will be employed in the Workshop Section on wages. Whenever conditions permit, skilled workmen, preferably former students of the school, will be employed in association with pupils in the Workshop section to execute outside orders.

DISTRIBUTION OF WORK.

	Training Section.	General Education.	Drawing.
1st year per week of	41½ hours.	26 hrs.	9 hours.	6½ hours.
2nd " " "	" "	" "	" "
3rd " " "	" "	" "	" "
4th " " "	" "	" "	" "
5th " " "	" "	41½hrs.	- -	- -

TERMS.

Every year is divided into two terms, the first commencing from the 1st July and ending with December and the second term from the 1st of January and ending with June. Lessons are provided only for three years, the other two years being spent chiefly in the workshop section of the school.

AKM.

CRangaramia Rao Sahib

REVISED SYLLABUS AND COURSE OF STUDIES FOR THE USE OF THE INDUSTRIAL SCHOOLS.

The period of training in each subject extends over three years, every year being divided into two sessions, the first commencing from the 1st of July and ending with December and the second from the 1st of January and ending with June.

General Education.

I Year :-

1st Session. Mastering the letters of the Kannada alphabet; reading Kannada Balabhodhe, Part I; writing to dictation, simple sentences.

2nd Session. Reading Kannada Balabodhe, Part II. Numeration by increment or decrement of fixed numbers viz., 2, 3, 4, 5, to 10, mostly orally; Notation, Addition and Subtraction of single figures, mostly orally.

II Year :-

1st Session. Kannada Reader, No. I. Addition, subtraction, simple multiplication and multiplication tables upto 20 x 12.

2nd Session. Kannada Reader, No. II. Compound Addition, Subtraction and multiplication and simple division. English alphabets.

III Year :-

1st Session. English Primer, No. I. Easy lessons in History and Geography with more attention to Mysore.

Arithmetic; Square Measure.

2nd Session. English Primer, No. 2. General lessons on costing, estimating properties of materials used in the

used in the classes and their characteristics.

Arithmetic: Cubic Measure.

DRAWING.

I Year -

1st Session. Free-hand drawing - Simple.

2nd Session. Free-hand drawing - Ornamental and plant form.

II Year -

1st Session. Model Drawing - Simple.

2nd Session. Model drawing - Advanced.

III Year -

1st Session. Elementary Geometry. Geometrical drawing and its principles - Sketching.

2nd Session. Simple Machine Drawing. Idea of plan, Elevation and Section.

CARPENTRY AND CABINET-MAKING.

I Year. -

1st Session. Handling of tools such as a hand saw, jack plane, chisel, mallet and a try square.

Exercise - Sawing, plaing and chiselling of wood.

2nd Session. Handling of tools including Marking Guage, Foot Rule, Screw Driver and a Bradawl.

Exercise - 1. Seat Plank,
2. Photo Frame,
3. Simple Wall-Bracket.

II Year -

1st Session. Lessons on the sharpending and grinding of tools. Single Mortise and Tenon joints.

Exercises - 1. Simple Go-cart,

2. Hat Rack,

3. Ordinary ink-stand.

2nd Session. Handling of tools including Brace, smoothing plane etc.

Double Mortise and Tennon, Briddle and saddle joints.

Exercise - 1. Book-shelf,
2. Easy chair,
3. Stool.

Lessons on Sand papering and varnishing.

III Year -

1st Session. Handling of tools including Plough, plane circular and moulding planes and Bevel square, Dove-tail, halved joints, notched on both sides, open dove-tail and mitre joints.

Exercise. - 1. Box,
2. Bench,
3. Table with a single drawer and square legs.

Study of timber, their characteristics and behaviour.

Lessons on wood finishing in paints and polishes.

2nd Session. Handling of labour saving appliances, such as a hand-band-saw, drilling machine, wood turning lathe.

Hidden dove-tail, mitre joints with closed and open tenon. Scarf-joint, plank joints such as screwed glue rebate and tongue-groove.

Practice in wood turning, polishes and their preparation.

Exercise. 1. Toilet - box,
2. Turning Ruler and Knob Handles,
3. Table with turned legs and 2 drawers,
4. Bug proof chair,
5. Almirahs.

BLACK-SMITHY AND FITTERS' WORK.

I Year -

1st Session. Practice in sledge-hammering. Setting up a forge and management of fire. Lenthening out a piece of round iron by the use of hand hammer and tapering the same into

the same intoround and square ends.

2nd Session. Heating and forging a piece of iron into various shapes such as rectangular into round round into half round, round into triangular and vice versa.

Exercises- 1. Dowel pins,
2. Rake, poker and shovel .

II Year -

1st Session. Handling of tools such as chisels and files; upsetting, drawing out and bending, working with punches, set hammers and tongs.

Exercises - 1. Square and round headed nails,
2. Eyehooks,
3. Key and key-ways.

2nd Session. Practice in welding.

Examinn.

Exercises. - 1. Double links,
2. Ordinary hinges, hasps and staples.

III Year -

1st Session. Uses of taps and dies, Ratchet drill and guages. Practice in soldering and brazing.

Exercises - 1. Bolts and nuts,
2. Garden tools such as pickaxes, forks etc.,
3. Callipers and dividers.

2nd Session. Practice in forging and tempering chisels and drill-bits. Simple turning on power lathe. Uses of of drilling machines.

Exercises - 1. Hammers of different kinds,
2. Tongs,
3. Hexagonal bolts and nuts of the lathe.

RATTAN.

I Year. -

1st Session. Practice in cleaning rattan by scraping and removing of knots.

Exercises. - Round and oval trays (strings supplied)

2nd Session. Practice in splitting.

Exercises. - Simple baskets and trays (strings supplied)

II Year. -

1st Session

II Year. -

1st Session. Practice in splitting and drawing strings.

Exercises. - 1. Paper trays,
2. Flower baskets.

2nd Session. Practice in drawing strings of varying fineness.

Exercise. - Weaving in rattan such as hole, double rattan, diamond and spider web.

III Year -

1st Session. Lessons on the quality and selection of Rattan for different kinds of work.

Exercises. - 1. Tiffin Box,
2. Cradle.

2nd Session. Lessons on cane furniture making.

Exercises . - 1. Chairs,
2. Teapoys,
3. Letteea.

SHEET METAL WORK.

I Year.

1st Session. Practice in heating a piece of sheet metal and hammering it evenly.

2nd Session. Management of the forge. Uses of shears and files. Practice in cutting a circular metal piece with the shears, filing the edges, hammering the same with a mallet on a wooden block with depression and then finishing it with a steel hammer on the flat piece of hard wood or anvil or a stake.

II Year.

1st Session. Lessons on solders - soft and hard. Annealing the brass sheets to make them more pliable. Lessons on the use of stakes such as bullet and oullet and bottom.

Exercises. 1. Cups,
2. Cake pans.

kinds of hammers like hollowing, creasing and planishing.

Exercises. 1. Cups with handle and saucers,
2. Tumblers,
3. Trays with handles.

III Year. -

1st Session. Practice in brazing and soldering, rimming and edging.

Exercises. 1. Teakettle,
2. Bogunies,
3. Panchapatre,
4. Spoons and ladles.

Lessons in smithy work such as making small tools and tempering them.

2nd Session. Practice in jointing various kinds of handles to vessels by rivetting and soldering. Practice in jointing two ends and beating them into different shapes on stakes. Practice in moulding and casting simple things such as bearings, handles, knobs, etc.

Exercises. 1. Chambu,
2. Thappale,
3. Palas,
4. Cast tumblers,
5. Box and cup handles, door knobs, etc.,
6. Flower vases.

SANDALWOOD CARVING.

I Year.

1st Session. Practice in sawing, plaing and chiselling of wood. Lessons on the use of carving tools, how to sharpen them and keep them in working condition.

2nd Session. Lap joints.

Exercises. 1. A frame,
2. A Go-cart.

Lessons on how to build up designs for high and low relief. Method of carving tools.

II Year.-

1st Session. Practice in mortise and tenon joints.

Tracing and outlining in practical carving.

Exercises. 1. Paper cutters,
2. Combs and photo frames with simple designs carved.

making carving tools.

Lessons in pierced carving with ~~the file~~ simple floral and ~~small~~ scrole designs.

Exercises. 1. Match and Cigarette cases,
2. Card trays, oblong and round.

III Year. ~~1st Session~~ 1st Session. Practice in dove-tail and mitre joints. Carving in the round. Exercise. Birds and Animals.

~~2nd Session~~. Lessons on wood-turning. Practice in carving as figures.

Exercises. - 1. Pantapana,
2. Glove and kerchief boxes,
3. Paper weights with animal designs.

W E A V I N G.

I Year.

1st Session. Lessons on preparing low count of yarn to be put on the looms i.e., winding up yarn on to yartes, bobbins, pirns and hand warping.

Practice in sawing, planing and chisselling of wood.

2nd Session. Practice in the handling of weaving accessories, such as yartes, bobbins, reels, healds, swifts, cages and warping frames.

Exercises. 1. Bed sheets,
2. Towels,
3. Cheels.

II Year.

1st Session. Practice in mortise and tenon joints. Practice in warping, beaming, sizing, twisting, gaiting of warp on to loom. Lessons on the fitting up of the various parts of a loom.

Exercises. Handkerchiefs and shirtings.

2nd Session. Practice in warping and sizing of different patterns of cloth with coloured threads. Briddle and saddle joints.

Exercises. 1. Loose parts of a loom,
2. Plain border saries.

III Year.

1st Session. Practical lessons on the use of finer counts

counts of yarn and the using of silk as well.

Dove-tail and mitre joints in carpentry.

Exercises. 1. Saries with silk border.
2. Shirtings of finer counts.

2nd Session. Lessons in dyeing.

Exercises. 1. Dhoties with silk and lace border.
2. Figures on cloth with the use of tappets and jacquard.
3. Weaving of double shuttle saries.
4. Construction of a loom.

LACQUER WORK.

I Year.

1st Session. Lessons in preparing wood for turning. Practice on hand lathes.

Exercises. 1. Toy dumb-bells, discs.
2. Kolattam sticks without lacquering.

2nd Session. Lessons in planing and chiselling of wood and practice in lacquering.

Exercises. 1. Simple dice,
2. Small toys,
3. Whip tops.

II Year.

1st Session. Practice in Elementary smithy.

Exercises. 1. Rattles,
2. Mill stones,
3. Powder boxes.

2nd Session. Practice in forging and tempering of their tools.

Exercises. 1. Humming tops,
2. Toys, cots and cradles,
3. Japanese cups,
4. Rulers and pen holders.

III Year.

1st Session. Lessons on the mixing up of colour with lac and preparing sticks.

Exercises. 1. Stands for ink, watch, and scented sticks.
2. Needle cases,
3. Toy motor cars and Engines.

2nd Session. Practice on power lathes.

14

2nd. Session. Practice on power lathes.

Exercises. 1. Cases for scent bottles,
2. Paper weights, pin cushions and lamp stands,
3. Chessmen of different ~~kinds~~ patterns.

****

NATURE IMITATION.

I Year.

1st Session. Simple lessons in clay modelling.

Practice in knife work.

2nd Session. Lessons on the tools and their correct uses.

Exercises. 1. Lady's fingers,
2. Chillies,
3. Bananas,
both in clay and wood.

II Year.

1st Session. Practice in clay modelling - Plant forms.

Exercises. in wood.

1. Brinjals,
2. Apple, orange and tomattoes.

2nd Session. Practice in the preparatory processes of Colouring and shading.

Exercises. Sugar cane,
Custard apple.

III Year

1st Session. Lessons in clay modelling of fruits and animal forms.

Exercises. 1. Elephant,
2. Tiger,
3. Pigeon,
4. Mangoes,
5. Melons, etc.

2nd Session. Practising the above in wood and colouring the same.

Exercise. Preparing bunches of all the different kinds of fruits.

EXTRACT FROM

15

The Proceedings of the meeting of the Superintendents of Industrial Schools held in the office of the Director of Industries and Commerce on Wednesday the 25th July 1928, commencing at 1 P.M.

---

* * * * * *

The classification of the schools into Industrial Schools and Trade Schools requires modification. The Industries Commission in their report have suggesged that the desgnation of Industrial Schools is more applicable to schools which impart instruction for work in industries which are highly organised and that all other Institutions where the training is primarily intended to improve the skill of the artisans should be designated Trade Schools. Judged from this standard, all our Industrial Schools can only be treated as Trade Schools, except the weaving school at Dodballpur. Even in respect of the latter, it is only Hand loom weaving which is not highly organised, that is taught here. It serves no useful purpose to maintain the distinctions in the case of our schools. As the name, Industrial Schools, have become familiar it may be retained to designate our -- Schools.

* * * * * *

It was considered desirable that a Smithy Class should also be added to the Dodballapur school.

* * * * * * *

Ramatirtha Ramanujam

AKM. for Director.

Appendix F G—1

16

SUBJECT.....

.....

.....

Section 20C

File No. 306-28

Serial No. 2

No. D.10982

Diary No. of letter replied to.....

General and Revenue Secretariat

( )

the *192*

To

The Director of Pt.

Date of issue 24/4/29

Sir

Signed by M.V.C.P. Nair

With reference to your letter No. 19-633/28-29, dt. the 23rd Feb-29, submitting for approval a revised Syllabus of the Course of Instruction to be followed in Govt. Schools, I am directed to be so good as to furnish for the info. of Govt. the details of additional expenditure involved in the proposed revision of the Syllabus.

List of enclosures.....

2. I am further to request that, if possible, Sir Alfred Chatterton's views may also be obtained on the Revised Syllabus.

Copied by.....

omit as this A.C. has already been the case

Examined by.....

P.T.O. over

~~that you may draw up~~

~~Send me by your~~

~~Thanks~~

~~Yours~~

£1.01
13.4.29

Ind. 306-28-3 (1)

TELEGRAPHIC ADDRESS :— "INDUSCOM."

In reply please refer to
No. D1-633/28-29

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

REV. SECRETARIAT 9728 5 MAY 1929 DEVELOPMENT BRANCH.

OFFICE OF THE DIRECTOR,

Dated, Bangalore, 14th May *192*9.

FROM

C. RANGANATHA RAO SAHIB, ESQ., B.A., B.L.,
Director of Industries and Commerce in Mysore,
(Bangalore, India.)

To

N. Rama Rao, Esq., B.A., B.L.,
Secretary to the Government of Mysore,
Development Departments, Bangalore.

SIR,

With reference to your letter No. D-10982/I&C. 306-28-2 dated 24-4-29 asking for details of additional expenditure involved in connection with the proposed revision of syllabus, I have the honour to state that the only obligatory item of expenditure as a result of the revision is the charge on account of scholarships for the third year to all the pupils of the Industrial Schools. This has already been sanctioned by Government in their order No.D-9555-6/I&C. 231-28-2 dated 18-3-29. All other items of expenditure are not immediately obligatory and may be met as funds become available. It is necessary to renew the tools etc., in each school and a grant of about Rs.250/- to Rs.300/- will be made for the purpose according to the requirements of each school from the normal budget grants sanctioned by Government. With a view to make a beginning in providing a machine workshop section to each school a total additional grant for Rs.4,500/- has been provided for in the budget estimates of the Industrial Schools for the year 1929-30. This will make it possible to provide workshop to the school at, Chitaldroog & Sagar

I request that the additional grants may kindly be sanctioned.

I beg to request that orders of Government approving the revised syllabus may kindly be obtained early so that it may be given effect to from the beginning of the next year when the term commences in the Industrial Schools.

I have the honour to be,
Sir,
Your most obedient servant,

Ranganatha Rao Sahib

Director in charge.

AKG)

Appendix F G—

SUBJECT..... (18

.....

.....

Section Genl.
File No. 306-28
Serial No. 4

Diary No. of letter replied to.....

No. D 239

General and Revenue Secretariat

( )

the *192*

To

The Director of Ed...

Sir

Date of issue 8/7/29

Signed by M. C. S. Narasimha

With reference to your letter No. D-633/28-4 of 14th May 29 regarding the expenditure incidental to the adoption of the Revised Syllabus in Industrial Schools, I am directed to request you to submit re-submit after revising them the Estimates in conformity with the Sanctioned budget grants for the Dept for the current year.

st of enclosures.....

Copied by..... Clerk

4.7.29

Examined by.....

for Secy

over

TELEGRAPHIC ADDRESS :— " INDUSCOM. "

In reply please refer to
No. D1-633/28-29.

GOVERNMENT OF MYSORE.

DEPARTMENT OF INDUSTRIES AND COMMERCE.

OFFICE OF THE DIRECTOR,

Dated, Bangalore, 22nd July *1929.*

FROM

C. RANGANATHA RAO SAHIB, ESQ., B.A., B.L.,
Director of Industries and Commerce in Mysore,
(Bangalore, India.)

To

N. Rama Rao, Esq., B.A., B.L.,
Secretary to the Government of Mysore,
Development Departments, Bangalore.

SIR,

With reference to your letter No. D.239/I&C. 306-28-4 dated the 8th July 1929, requesting me to re-submit the revised syllabus in conformity with the sanctioned budget grants for 1929-30, I have the honour to state that the main items of obligatory expenditure is the scholarship to third year students. This has already been provided for in the sanctioned budget for the current year. Provision has also been made for making a beginning in the creation of an annexe of a machine workshop section to each Industrial School by the allotment in the budget of Rs.4,500/- for the purpose. The Industrial - - schools at Channapatna, Hassan and Chickmagalur have a nucleas of such annexe already and the District Workshop at Shimoga will provide - - - practical training in Mechanical Engineering to the students of the Industrial School located in the same building. The equipment in the schools above mentioned will be completed and a beginning of a machine workshop section made in the other schools from the allotment provided in the budget. The revised syllabus provides for the opening of a Leather Worker's Class at Channapatna and a Motor Drivers' class at Shimoga. The opening of these classes may be deferred. I beg that the new syllabus may be sanctioned early in order that teaching on the lines approved may be started as early as possible. A copy of the syllabus as again revised is enclosed.

I have the honour to be,
Sir,
Your most obedient servant,

C Ranganatha Rao Sahib

DIRECTOR.

AKG.

Appendix F G—1

SUBJECT.....

.....

.....

Diary No. of letter replied to.....

General and Revenue Secretariat

( )

the *192*

Date of issue 20/11/29

Signed by

Section 21c

File No. 361-21

Serial No.

No. D 5249/Exc

To

The Supdt. Govt. Printing

Sir

I am directed to request you kindly to print and supply to the Secretariat immediately 600 Copies of the Revised Syllabus of Courses of Studies for the use of Vernacular Schools (copy enclosed in Original which may kindly be returned with printed copies)

21 ult

20.11.29

List of enclosures 20.11.29

Copied by.....

Examined by.....

over

WD 063—GPB—20,000—1-8-29

G.R.S. App. F VI G-2]

21

SUBJECT.....

.....

.....

Diary No. of letter replied to.....

Sec Dtc.
File No. 306-28
Serial No. 6

General and revenue Secretariat

( )

the *192*

Proceedings of the Government of His Highness the Maharaja of Mysore.

Date of issue 21/5/28

Signed by H. C. Dasappa

Read—

G.O. No Dtc 1609 | Dtc 320-23-4 Dt the 7th September 1926 approving of the prospectus and Syllabus in the Industrial Schools of the State.

2) G.O. No D 9555-6 | Dtc 231-28-2 Dt the 18th March 1929 Revising the ~~Order Thereon No.~~ mode of distribution of Scholarships in the Industrial Schools.

3) Correspondence ending with letter No D1-633|28-29 Dt 21/23-7-29 Submitting a Revised Syllabus of

May this be

i Printed ? Yes

ii treated as a standing order ?

iii published in the Gazette, English Part ?

iv translated ?

v placed at the disposal of the press ?

vi published in the Gazette, Kannada Part ?

from the Dir of Dtc

Subject: The Course of Instruction in Govt Industrial Schools of the State-

Order 3238 Dt 2/5/27

The Syllabus as proposed by the Director of I&C is approved, and is also appended to this order

Ex Secy to Govt
2999 Dev Dept

To

The Director of I&C,

CBR 91/8

List of enclosure.

Copied by

Examined by

WD 0326—GPB—12,500—26-5-27

I.C.1609-I&C. 320-23-4 dated the 7th September 1926.

Government Industrial Schools in the Mysore State.

R u l e s.

I N T R O D U C T I O N. There are seven Industrial Schools under the management of the Department of Industries and Commerce at the following centres:-

1. Shimoga.
2. Chickmagalur.
3. Hassan.
4. Chitaldroog.
5. Channapatna.
6. Sagar.
7. Dodballapur.

In addition to these schools there is t h e Chamarajendra Technical Institute at Mysore. where advanced training is given in Arts and Craftsfor students desirous of getting such training.

O B J E C T. The object aimed in these schools is to train boys in a methodical way, in any of the crafts noted below so as to enable them to earn an adequate living at the end of the course.

In order to make them skilled and efficient workmen, provision has been made to train them in drawing and in general education.

SUBJECTS TAUGHT.

1. Carpentry and cabinet making
2. Smithy and fitter's work.
3. Rattan and bamboo work.
4. Sheet metal work.
5. Lacquerware work and toy manufacture
6. Sandalwood carving.
7. Nature imitation (allied subjects to lacquer work).
8. Weaving.
9. Motor Mechanic - Driving.
10. Leather work.

A D M I S S I O N. 1. Students seeking admission to the schools should be above 12 years of age.

2. Admission will generally be made only once a year from the 15th May to the middle of August.

provided that in the case of the Industrial schools at Shimoga, Chickmagalur and Sagar students will be admitted up to the end of September.

3. The boys should be physically fit to undergo practical training.

4. Preference for admission will be given to the students whose parents are practising Craftsmen.

5. The parent or the guardianof the student should enter into an agreement with the Director of Industries and Commerce binding himself to keep the boy in the school till the completion of the course selected.

6. Pupils will be entitled to 15 days leave in a year but not more than four days in a particular month. They will also be entitled for not more than two months sick leave without forfeiting their scholarship.

7. A fine of half anna calculated in every rupee of stipend for every day of absence over and above the 15 days leave shall be deducted from the stipends. Late attendance on three days will be counted as one absence.

8. Admissions are made annually and limited in numbersto different sections as follows:-

1.	Carpentry.	8.
2.	Smithy.	5.
3.	Rattan.	6.
4.	Lacquerware work and toy manufacture - Channapatna.	20.
5.	Weaving - Dodballapur.	16.
6.	Sandalwood carving - Sagar.	16.

9. Vacancies during theyear will be filled up with the previous permission of the Superintendent of Industries, whenever suitable candidates should become available.

10. A special prize will be awarded to the student who completes the full course with regular attendance.

WORKING HOURS. In the morning.. 7. 30. A.M. to 11. 30 A.M.
In the evening.. 2. -- P.M. to 5. 30 P.M.
Saturday or local Shandy day. 7. 30 A.M. to 11. 30.A.M.

VACATION AND HOLIDAYS. The schools will be closed for summer vacation from the 15th April to the 15th May.

The schools will also be closed on all General holidays according to the Government Calendar.

SCHOLARSHIPS. Generally the course of study in each subject extends up to five years and that during the first second and third years students will be paid scholarships at the rate of Rs.2, 4, and 6 respectively in the case of boys belonging to classes other than the depressed community and Rs.3,5 and 6 respectively in the case of depressed class students.

The scholarships will be tenable only for three years.

During the 4th and 5th years students will be paid stipends in lieu of scholarships regulated according to their skill in the workshop section of the school wherein they will be required to complete their training.

In addition to the scholarships referred to above, eight scholarships, four on Rs.10/- each per mensem for local students and four on Rs.15/- to moffusil students will be granted for a period of one year to undergo training in the Departmental concern, viz. Central Industrial Workshop, Art - Workshop, Government Weaving Factory and the Silk Filature at Mysore.

EXAMINSATIONS & CERTIFICATES.

An examination will be held at the end of each year in the first fortnight of April. Promotion to the higher classes will be made with the approval of the Superintendent of Industries. Students failing to pass in the prescribed tests will not be promoted to the higher classes.

Certificates will be awarded by the Director of Industries and Commerce to students who successfully complete the course and pass an examination held in the final year by a Board constituted for the purpose.

Preference will be given to such holders of certificates in employing hands in the several Industrial concerns of the State.

GENERAL REMARKS.

Every school is managed by a qualified Superintendent assisted by an Instructor for each section.

There will be a school committee formed for each school. The main functions of the School Committee will be as follows:-

(a) Consideration of the periodical reports of the Superintendent of the school on the general working of the school.

(b) Consideration of application for scholarships

(c) Provision for regular flow of work in the workshop section of the school.

(d) Any other matters connected with the general improvement of the school.

The committee will have no executive control on the Superintendent or the staff and will not be empowered to sanction any expenditure.

Every school is divided into two sections:-

(i) Training Section (ii) Workshop section.

Pupils in the first three years of their course are given theoritica and practical training in the Training Section. After the third year they will be employed in the Workshop section on stipends. Whenever conditions permit, skilled workmen preferably former students of theschool will be employed in association with pupils in

in the workshop section to execute outside orders.

DISTRIBUTION OF WORK.

	Training Section.	General Education.	Drawing.
1st year per week of 41½ hours.	26 hrs.	9 hrs.	6½ hrs.
2nd -do-	" "	" "	" "
3rd -do-	" "	" "	" "
4th -do-	41½ "	-- --	-- --
5th -do-	41½ "	-- --	-- --

T E R M S.

Every year is divided into two terms - the first ~~commencing~~ commencing from the 1st July and ending with December and the second term from the 1st of January and ending with June. Lessons are provided only for three years - the other two years being spent chiefly in the workshop section of the school.

DIRECTOR OF INDUSTRIES & COMME

AKG.4.

15 j 28

Government of His Highness the Maharaja of Mysore.

P. W. 330

GENERAL AND REVENUE DEPARTMENTS

Revised Syllabus in Industrial Schools

Sanctions . . . . . .

G. O. No. ~~I C~~ D. 3238 | Dc 306-28-6 DATED 21st September 1929

May this be

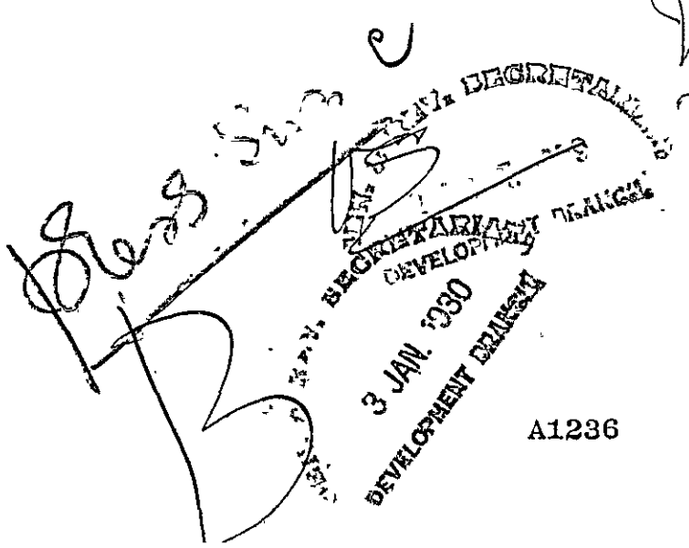
i. printed? } yes
ii. treated as a standing order? }

Eng 21/9

iii. published in the Gazette English Part? }
iv. translated? } No.
v. placed at the disposal of the press? }
vi. published in the Gazette Kannada Part? }

Eng 21/9
for orders on the above

Mysore 23.9.29



A1236

S.O.

Government of his highness the Maharaja of Mysore.

GENERAL AND REVENUE DEPARTMENTS.

G. O. No. D. 3238—I. & C. 306-28-6, dated 21st September 1929.

Revised Syllabus in Industrial Schools

Sanctions——

READ—

Government Order No. I. C. 1609— I. & C. 320-23-4, dated the 7th September 1926, approving of the Prospectus and Syllabus in the Industrial Schools of the State.

2. Government Order No. D. 9555-6— I. & C. 231-28-2, dated the 18th March 1929, revising the mode of distribution of scholarships in Industrial Schools.

3. Correspondence ending with letter No. D1-633—28-29, dated 22nd—23rd July 1929, from the Director of Industries and Commerce in Mysore, submitting a revised syllabus of the course of Instruction in Government Industrial Schools of the State.

ORDER No. D. 3238—I. & C. 306-28-6, DATED 21ST SEPTEMBER 1929.

The Syllabus as proposed by the Director of Industries and Commerce is approved with the modification that the proposal for the opening of a Leather Workers' Class and a Motor Drivers' Class may be deferred for the present. The revised syllabus is appended to this Order.

N. RAMA RAO,
Secretary to Government,
Development Departments.

To—The Director of Industries and Commerce in Mysore.

Exd —P. S. R. N.

No. D. 3238—I. & C. 306-28-6, DATED 21ST SEPTEMBER 1929.

GOVERNMENT INDUSTRIAL SCHOOLS IN THE MYSORE STATE.

RULES.

Introduction.

There are seven Industrial Schools under the management of the Department of Industries and Commerce at the following centres:—

1. Shimoga.
2. Chikmagalur.
3. Hassan.
4. Chitaldrug.
5. Channapatna.
6. Sagar.
7. Dodballapur.

In addition to these schools there is the Chamarajendra Technical Institute at Mysore, where advanced training is given in Arts and Crafts for students desirous of getting such training.

Object.

The object aimed in these schools is to train boys in a methodical way, in any of the crafts noted below so as to enable them to earn an adequate living at the end of the course.

In order to make them skilled and efficient workmen, provision has been made to train them in drawing and in general education.

Subjects taught.

1. Carpentry and cabinet making.
2. Smithy and fitter's work.
3. Rattan and bamboo work.
4. Sheet metal work.
5. Lacquerware work and toy manufacture.
6. Sandalwood carving.
7. Nature imitation (allied subjects to lacquer work).
8. Weaving.

Admission.

1. Students seeking admission to the schools should be above 12 years of age.

2. Admission will generally be made only once a year from the 15th May to the middle of August, provided that in the case of the Industrial Schools at Shimoga, Chikmagalur and Sagar, students will be admitted up to the end of September.

3. The boys should be physically fit to undergo practical training.

4. Preference for admission will be given to the students whose parents are practising Craftsmen.

5. The parent or the guardian of the student should enter into an agreement with the Director of Industries and Commerce binding himself to keep the boy in the school till the completion of the course selected.

6. Pupils will be entitled to 15 days leave in a year but not more than four days in a particular month. They will also be entitled for not more than two months sick leave without forfeiting their scholarship.

7. A fine of half anna calculated for every rupee of stipend for every day of absence over and above the 15 days leave shall be deducted from the stipends. Late attendance on three days will be counted as one absence.

8. Admissions are made annually and limited in number to different sections as follows:—

1.	Carpentry	8
2.	Smithy	5
3.	Rattan	6
4.	Lacquerware work and toy manufacture—Channapatna ..	20
5.	Weaving—Dodballapur	16
6.	Sandalwood carving—Sagar	16

No. D. 3238—I. & C. 306-28-6, DATED 21ST SEPTEMBER 1929.

9. Vacancies during the year will be filled up with the previous permission of the Superintendent of Industries, whenever suitable candidates should become available.

10. A special prize will be awarded to the student who completes the full course with regular attendance.

Working Hours.

In the morning	..	7-30 A.M. to 11-30 A.M.
In the evening	..	2 P.M. to 5-30 P.M.
Saturday or local Shandy day	..	7-30 A.M. to 11-30 A.M.

Vacation and Holidays.

The schools will be closed for summer vacation from the 15th April to the 15th May.

The schools will also be closed on all General Holidays according to the Government Calendar.

Scholarships.

Generally the course of study in each subject extends up to five years and that during the first, second and third years students will be paid scholarships at the rate of Rs. 2, 4, and 6 respectively in the case of boys belonging to classes other than the depressed community and Rs. 3, 5 and 6 respectively in the case of depressed class students.

The scholarships will be tenable only for three years.

During the 4th and 5th years students will be paid stipends in lieu of scholarships regulated according to their skill in the workshop section of the school wherein they will be required to complete their training.

In addition to the scholarships referred to above, eight scholarships, four on Rs. 10 each per mensem for local students and four on Rs. 15 to moffusil students will be granted for a period of one year to undergo training in the Departmental concerns, *viz.*, Central Industrial Workshop, Art Workshop, Government Weaving Factory and the Silk Filature at Mysore.

Examinations and Certificates.

An examination will be held at the end of each year in the first fortnight of April. Promotion to the higher classes will be made with the approval of the Superintendent of Industries. Students failing to pass in the prescribed tests will not be promoted to the higher classes.

Certificates will be awarded by the Director of Industries and Commerce to students who successfully complete the course and pass an examination held in the final year by a Board constituted for the purpose.

Preference will be given to such holders of certificates in employing hands in the several Industrial concerns of the State.

General Remarks.

Every school is managed by a qualified Superintendent assisted by an Instructor for each section.

There will be a school committee formed for each school. The main functions of the School Committee will be as follows :—

(*a*) Consideration of the periodical reports of the Superintendent of the school on the general working of the school.

(*b*) Consideration of applications for scholarships.

(*c*) Provision for regular flow of work in the workshop section of the school.

(*d*) Any other matters connected with the general improvement of the school.

The Committee will have no executive control on the Superintendent or the staff and will not be empowered to sanction any expenditure.

Every school is divided into two sections :—

(i) Training Section (ii) Workshop Section.

Pupils in the first three years of their course are given theoretical and practical training in the Training Section. After the third year they will be employed in the Workshop section on stipends. Whenever conditions permit, skilled workmen preferably former students of the school will be employed in association with pupils in the workshop section to execute outside orders.

No. D. 3238—I. & C. 306-28-6, DATED 21ST SEPTEMBER 1929.

Distribution of Work.

	Training Section	General Education	Drawing
1st year per week of 41½ hours ..	26 hours	9 hours	6½ hours
2nd do ..	do	do	do
3rd do ..	do	do	do
4th do ..	41½ hours	do	do
5th do ..	do	...	...

Terms.

Every year is divided into two terms—the first commencing from the 1st July and ending with December and the second term from the 1st of January and ending with June. Lessons are provided only for three years—the other two years being spent chiefly in the workshop section of the school.

W D 913—GEB—720—14-10-29.

REVISED SYLLABUS AND COURSE OF STUDIES FOR THE USE OF THE INDUSTRIAL SCHOOLS.

The period of training in each subject extends over three years, every year being divided into two sessions, the first commencing from the 1st July and ending with December and the Second from the 1st January and ending with June.

General Education.

I *Year—First Session.*—Mastering the letters of the Kannada alphabet reading Kannada Balabodhe, Part I; writing to dictation, simple sentence.

Second Session.—Reading Kannada Balabodhe, Part II. Numeration by increment or decrement of fixed numbers, *viz.*, 2, 3, 4, 5 to 10, mostly orally; Notation. Addition and Subtraction of single figures, mostly orally.

II *Year—First Session.*—Kannada Reader No. I. Addition, Subtraction, simple multiplication and multiplication tables upto 20×12.

Second Session.—Kannada Reader No. II. Compound addition, Subtraction, Multiplication and simple division. English alphabets.

III *Year—First Session.*—English Primer No. I. Easy lessons in History and Geography with particular reference to Mysore.

Arithmetic—Square measure.

Second Session.—English Primer No. II. General lessons on costing, estimating properties of materials used in the classes and their characteristics.

Arithmetic—Cubic measure.

Drawing.

I *Year—First Session.*—Freehand Drawing—Simple.

Second Session.—Freehand Drawing—Ornamental and plant form.

II *Year—First Session.*—Model Drawing—Simple.

Second Session.—Model Drawing—Advanced.

III *Year—First Session.*—Elementary Geometry. Geometrical Drawing and its principles—Sketching.

Second Session.—Simple Machine Drawing. Idea of plan, Elevation and Section.

Carpentry and cabinet-making.

I *Year—First Session.*—Handling of tools such as a Handsaw, jack plane chisel mallet and a try square.

Exercises—Sawing, planing and chiselling of wood.

Second Session.—Handling of tools including marking guage, Foot rule, Screw Driver and a Bradawl.

Exercises—1. Seat Plank,
2. Photo Frame,
3. Simple wall bracket.

II *Year—First Session.*—Lessons on the sharpening and grinding of tools. Single Mortise and Tennon joints.

Exercises—1. Simple go-cart,
2. Hat rack,
3. Ordinary ink-stand.

Second Session.—Handling of tools including brace, smoothing plane, etc. Double Mortise and Tennon, Bridle and Saddle joints.

Exercises—1. Book-shelf,
2. Easy Chair,
3. Stool.

Lessons on sand papering and varnishing.

III *Year—First Session.*—Handling of tools including plough-plane, circular and moulding planes and bevel square dove-tail halved joints, notched on both sides open Dove-tail and mitre joints.

Exercises—1. Box,
2. Bench,
3. Table with a single Drawer and square legs.

Study of timber and their characteristics and behaviour. Lessons on wood finishing in paints and polishes.

Second Session.—Handling of labour saving appliances such as a hand-band-saw, drilling machine, wood turning lathe.

Hidden dove-tail, mitre joints with closed and open tennon. Scarf joint, plank joints such as screwed, glue rebate and tongue groove.

Practice in wood turning, polishes and their preparation.

Exercises—1. Toilet Box,
2. Turning Ruler and knob handles,
3. Table with turned legs and two drawers,
4. Bug proof chair,
5. Almirahs.

Black-smithy and fitters' work.

I *Year—First Session.*—Practice in sledge hammering. Setting up a forge and management of fire. Lengthening out a piece of round iron by the use of hand hammer and tapering the same into round and square ends.

Second Session.—Heating and forging a piece of iron into various shapes such as rectangular into round, round into half round, round into triangular and *vice versa.*

Exercises—1. Dovel pins,
2. Rake, poker and shovel.

II *Year—First Session.*—Handling of tools such as chisels and files; upsetting drawing out and bending, working with punches, set hammers and tongs.

Exercises—1. Square and round headed nails,
2. Eye hooks,
3. Key and key ways,

Second Session.—Practice in welding.

Exercises—1. Double links,
2. Ordinary hinges, hasps and staples.

III *Year First Session.*—Uses of taps and dies, ratchet drill and swages. Practice in soldering and brazing.

Exercises—1. Bolts and nuts,
2. Garden tools such as pick axes, forks, etc.,
3. Callipers and Dividers.

Second Session.—Practice in foreging and tempering chisels and drill bits. Simple turning on power lathe. Uses of drilling machines.

Exercises—1. Hummers of different kinds.
2. Tongs,
3. Hexagonal bolts and nuts of the lathe.

Rattan.

I *Year—First Session.*—Practice in cleaning rattan by scraping and removing of knots.

Exercises—Round and oval trays (Strings supplied).

Second Session.—Practice in splitting.

Exercises—Simple baskets and trays (Strings supplied).

II *Year—First Session.*—Practice in splitting and drawing strings.

Exercises—1. Paper trays,
2. Flower baskets.

Second Session.—Practice in drawing strings and varying fineness.

Exercises—Weaving in rattan such as hole, double rattan and diamond and spider web.

III *Year—First Session.*—Lessons on the quality and selection of rattan for different kinds of work.

Exercises—1. Tiffin box,
2. Cradle.

Second Session.—Lessons on cane furniture making.

Exercises—1. Chairs,
2. Teapoys,
3. Lettees.

Sheet Metal Work.

I *Year—First Session.*—Practice in heating a piece of sheet metal and hammering it evenly.

Second Session.—Management of the Forge. Uses of shears and files. Practice in cutting a circular metal piece with shears, filing the edges, hammering the same with a mallet on a wooden block with depression and then finishing it with a steel hammer on the flat piece of hard wood or anvil or a stake.

II *Year—First Session.*—Lessons on solders—soft and hard. Annealing the brass sheets to make them more pliable. Lessons on the use of stakes such as bullet and bottom.

Exercises—1. Cups,
2. Cake pans.

Second Session.—Lessons in handling different kinds of hammers like hollowing, creasing and planishing.

Exercises—1. Cups with handle and saucers,
2. Tumblers,
3. Trays with handles.

III *Year—First Session.*—Practice in brazing and soldering rimming and edging.

Exercises—1. Tea kettle,
2. Bogunies,
3. Panchapatre,
4. Spoons and laddles.

Lessons in smithy work such making small tools and tempering them.

Second Session.—Practice in jointing various kinds of handles to vessels by rivetting and soldering. Practice in jointing two ends and beating them into different shapes on stakes. Practice in moulding and casting simple things such as bearings, handles, knobs, etc.

Exercises—1. Chombu,
2. Thappale,
3. Palas,
4. Cast tumbler
5. Box and cup handles, door knobs, etc.
6. Flower vases.

Sandalwood carving

I *Year—First Session.*—Practice in sawing, planing and chiselling of wood. Lessons on the use of carving tools, how to sharpen them and keep them in working condition.

Second Session.—Lap joints.

Exercises—1. A Frame,
2. A go-cart.

Lessons on how to build up designs for high and low relief. Method of carving tools.

II *Year—First Session.*—Practice in Mortise and tenon joints. Tracing and outlining in practical carving.

Exercises—1. Paper cutters,
2. Combs and photo frames with simple designs carved.

Second Session.—Management of fire and practice in making carving tools. Lessons in pierced carving with simple floral and scroll designs.

Exercises—1. Match and Cigarette cases,
2. Card Trays oblong and round.

III *Year—First Session.*—Practice in dove-tail and mitre joints. Carving in the round.

Exercises—1. Birds and animals.

Second Session.—Lessons on wood turning. Practice in carving figures.

Exercises—1. Mantapams,
2. Glove and Kerchief boxes,
3. Paper weights with animal designs.

Weaving.

I *Year—First Session.*—Lessons on preparing low count of yarn to be put on the looms, *i.e.*, winding up of yarn to rates, bobbins, pirns and hand warping.

Practice in sawing, planing and chiselling of wood.

Second Session.—Practice in the handling of weaving accessories such as rates, bobbins, reels, healds, swifts, cages and warping frames.

Exercises—1. Bed sheets,
2. Towels,
3. Checks.

II *Year—First Session.*—Practice in mortise and tenon joints. Practice in warping, beaming, sizing, twisting, gaiting of warp on to loom. Lessons on the fitting up of the various parts of a loom.

Exercises—Handkerchiefs and shirtings.

Second Session.—Practice in sizing and warping of different patterns of cloth with coloured threads. Bridle and saddle joints.

Exercises—1. Loose parts of a loom,
2. Plain border saris.

III *Year—First Session.*—Practical lessons on the use of finer counts of yarn and the using of silk as well. Dove-tail and mitre joints in carpentry.

Exercises—1. Saries with silk border,
2. Shirtings of finer counts.

Second Session.—Lessons in dyeing.

Exercises—1. Dhoties with silk and lace border,
2. Figures on cloth with the use of tappets and jacquard
3. Weaving of double shuttle saris,
4. Construction of a loom.

Lacquer-Work.

I *Year—First Session.*—Lessons in preparing wood for turning. Practice on hand lathes.

Exercises—1. Toy Dumbells (ಡಂಗಾಣ),
2. Kolattam sticks without lacquering.

Second Session.—Lessons in planing and chiselling of wood and practice of acquering.

Exercises—1. Simple dice,
2. Small toys (ಕುಡಿಕೆ),
3. Whip toys (ಚಾಟಿ ಬುಗರಿ).

II *Year—First Session.*—Practice in Elementary smithy.

Exercises—1. Rattles,
2. Mill stones,
3. Powder boxes.

Second Session.—Practice in foreging and tempering of their tools.

Exercises—1. Humming tops,
2. Toys, cots and cradles,
3. Japanese cups,
4. Rulers and penholders.

III *Year—First Session.*—Lessons on the mixing up of colour with lac and preparing sticks.

Exercises—1. Stands for ink, watch and scented sticks,
2. Needle cases,
3. Toy motor cars and engines.

Second Session.—Practice on power lathes.

Exercises—1. Cases for scent bottles,
2. Paper weights, pin cushions and lamp stands,
3. Chessmen of different patterns.

Nature Imitation.

I *Year—First Session.*—Simple lessons in clay modelling. Practice in knife-work.

Second Session.—Lessons on the tools and their correct uses.

Exercises—1. Lady's fingers,
2. Chillies,
3. Bananas.

Both in clay and wood.

II *Year—First Session.*—Practice in clay modelling. Plant forms.

Exercises in wood—1. Brinjals,
2. Apple, orange and tomatoes.

Second Session.—Practice in the preparatory processes of colouring and shading.

Exercises—Sugar cane, custard apple.

III *Year—First Session.*—Lessons in clay modelling of fruits and animal forms.

Exercises—1. Elephant,
2. Tiger,
3. Pigeon,
4. Mangoes,
5. Melons, etc

Second Session.—Practising the above in wood and colouring the same.

Exercises—Preparing bunches of all the different kinds of fruits.

(Sd.) N. RAMA RAO,
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Development Departments.

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